

Converting Colors

XYZ(12.3081, 23.1166, 5.1951)

Have a look what the booklet for
XYZ(12.3081, 23.1166, 5.1951)
contains.

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Color

**XYZ(12.3795, 23.2618,
5.2040)**

Conversions

Conversions Part 1

Format	Color
Hex	249920
RGB	36, 153, 32
RGB Percent	14%, 60%, 13%
CMY	0.8588, 0.4000, 0.8745
CMYK	0.76, 0.00, 0.79, 0.40
HSL	118°, 65%, 36%
HSV	118°, 79%, 60%
XYZ	12.3795, 23.2618, 5.2040
YIQ	104.2230, -30.8910, -62.4350

Conversions

Conversions Part 2

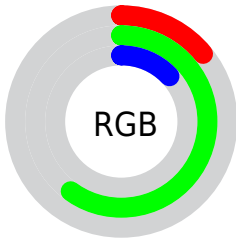
Format	Color
R_{YB}	32, 153, 149
Decimal	2398496
CIE _{Lab}	55.34, -54.05, 50.42
CIE _{LCh}	55, 73.920, 136.992
Yxy	23.2618, 0.3031, 0.5695
Android (android.graphics.Color)	4280588576 (0xFF249920)
YUV	104.2230, -35.6059, -59.8316
Hunter-Lab	48.2305, -38.5871, 27.3640

Details

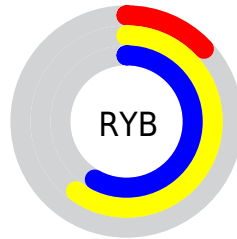
The XYZ color **12.3795, 23.2618, 5.2040** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **18.6624, 9.7235, 31.0314**, and the grayscale version is **13.3170, 14.0105, 15.2574**.

A 20% lighter version of the original color is **29.7151, 48.6084, 16.6203**, and **4.5572, 9.1143, 1.5191** is the 20% darker color. If you saturate the color by 10%, you get **11.8042, 22.9846, 4.3326**, and if you desaturate by 10%, it is **13.2659, 23.6896, 6.5951**.

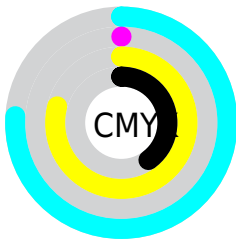
Distribution



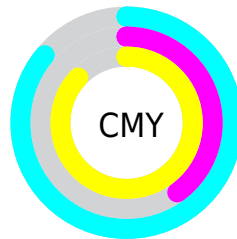
- Red (14%)
- Green (60%)
- Blue (13%)



- Red (13%)
- Yellow (60%)
- Blue (58%)



- Cyan (76%)
- Magenta (0%)
- Yellow (79%)
- Black (40%)





- Cyan (86%)
- Magenta (40%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3795, 23.2618, 5.2040 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 12.3795, 23.2618, 5.2040 by changing the saturation by 10% instead.


 12.3795, 23.2618,
5.2040


 12.3795, 23.2618,
5.2040


200.6208,
269.0668, 160.7919


 7.0767, 14.7869,
2.3066


 29.7953, 48.8228,
16.7031


 3.5569, 8.6700,
0.7349


 42.6391, 66.6778,
26.1419

 1.4546, 4.5266,
0.0000

 58.7272, 88.4283,
38.5982

 0.2947, 1.9723,
0.0000

 78.4250, 114.4586,
54.4906

 0.0000, 0.5913,
0.0000

 102.0980,
145.1533, 74.2376

 0.0000, 0.0000,
0.0000

 130.1113,

180.8966, 98.2578

162.8305,
222.0730, 126.9698

■ 12.3795, 23.2618,
5.2040

■ 12.3795, 23.2618,
5.2040

■ 11.8042, 22.9846,
4.3326

■ 13.2659, 23.6896,
6.5951

■ 11.4796, 22.8278,
3.8415

■ 14.4972, 24.2819,
8.5678

■ 11.4549, 22.8160,
3.8002

■ 16.1044, 25.0544,
11.1772

■ 18.1147, 26.0199,
14.4715

■ 20.5529, 27.1903,
18.4941

■ 23.4416, 28.5765,
23.2850

■ 26.8019, 30.1884,
28.8814

■ 30.6536, 32.0355,
35.3178

■ 35.0154, 34.1269,
42.6269

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



17.7697, 23.2618, 1.9480



12.3795, 23.2618, 5.2040



9.9288, 23.2618, 16.3774

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



12.3795, 23.2618, 5.2040



18.7114, 23.2618, 100.9577



41.1324, 23.2618, 14.1898

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



12.3795, 23.2618, 5.2040



18.6624, 9.7235, 31.0314

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



41.5679, 23.2618, 37.0595



12.3795, 23.2618, 5.2040



27.1043, 23.2618, 98.9062

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.3795, 23.2618, 5.2040



12.9197, 23.2618, 75.5448



35.9390, 23.2618, 70.9882



34.8662, 23.2618, 4.4608

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12.3795, 23.2618, 5.2040



9.7594, 23.2618, 31.3035



35.9390, 23.2618, 70.9882



42.0121, 23.2618, 20.1661

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



12.3800, 23.2628, 5.2045



39.0876, 49.7876, 36.8979



24.1408, 28.3621, 5.5689



8.2694, 10.8201, 7.5484



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.3800, 23.2628, 5.2045



20.6718, 40.9344, 7.0972



13.7685, 23.8029, 13.2038



6.1501, 6.9348, 6.6203



9.4726, 18.8592, 3.1409



0.1460, 0.2842, 0.0472

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



18.6624, 9.7235, 31.0314



32.3109, 15.6276, 55.2854



15.7902, 8.6603, 12.0358



6.4411, 6.3132, 7.8081



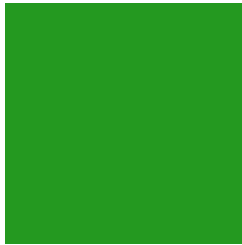
14.8436, 7.1032, 25.4964



0.2273, 0.1090, 0.3814

Previews

White Background



This preview shows how the XYZ color 12.3795, 23.2618, 5.2040 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 12.3795, 23.2618, 5.2040 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

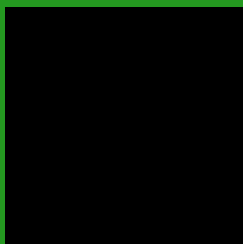
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3795, 23.2618, 5.2040

Background



This preview shows how black text looks on a background with the XYZ color 12.3795, 23.2618, 5.2040.



This preview shows how white text looks on a background with the XYZ color 12.3795, 23.2618,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

12.3795, 23.2618, 5.2040

Protanopia

20.6618, 22.8776, 4.3637

Deuteranopia

23.3243, 22.8560, 5.6650



Tritanopia

18.2537, 23.3176, 34.1105

Trichromacy



Original Color

12.3795, 23.2618, 5.2040



Protanomaly

15.6633, 21.9707, 4.5776



Deuteranomaly

16.5182, 21.3327, 5.2545



Tritanomaly

14.9931, 22.8928, 18.3804

Monochromacy



Original Color

12.3795, 23.2618, 5.2040



Achromatopsia

13.1579, 13.8432, 15.0752



Achromatomaly

11.5591, 16.1314, 9.7122

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3795, 23.2618, 5.2040 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(36, 153, 32)` looks like.

```
.text, #text, p{  
    color:rgb(36, 153, 32)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(36, 153, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 153, 32) }
```

Border

The CSS property to change the border of an element to XYZ 12.3795, 23.2618, 5.2040 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(36, 153, 32) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(36, 153, 32) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(36, 153, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 153, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 153, 32);  
box-shadow:4px 4px 4px 4px rgb(36, 153,  
32) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3795, 23.2618, 5.2040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 153, 32) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(36, 153,  
32) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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